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Fig.1.

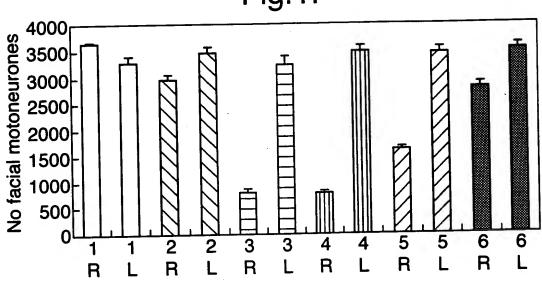


Fig.2a.

Avulsion

op non-op

Fig.2b.

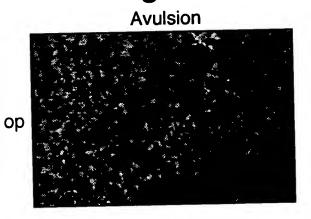
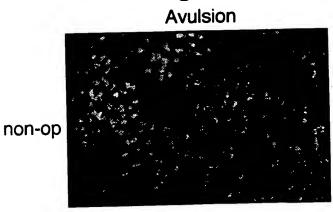
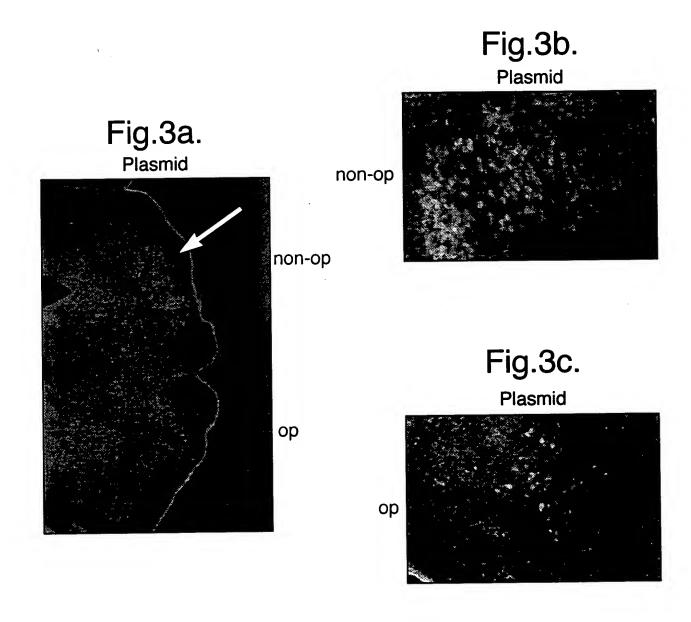


Fig.2c.





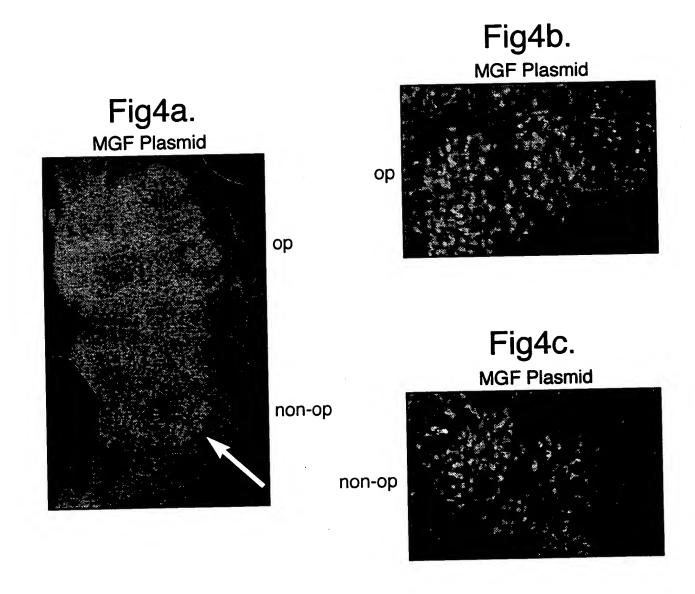


Fig.5.

CDNA sequence of Human MGF

Exon 3 GGACCGGAGACGCTCTGCGGGCTGAGCTGCTCTTCAGTTCGTGTGTGGAGACAGGGGCCTTTTATTTCAACAAGCCCACAGGGTATGGCTCCAGCAGTCGG

Exon 5 TGTCCGTGCCCAGCGCCACACGACATGCCCCAGAAGTATCAGCCCCCATCTACCAACAAGAACACGAAGTCTCAGAGAAGGAAAGGAAAGGAAGTACATTTGAAG

CCTGTAAACATTGGAATACCGGCCAAAAATAAGTTTGATCACATTTCAAAGATGGCATTTCCCCCCAATGAAATACACAAGTAAACAT

Protein sequence of Human MGF

Exon 3 GlyProGluThrLeuCysGlyAlaGluLeuValAspAlaLeuGlnPheValCysGlyAspArgGlyPheTyrPheAsnLysProThrGlyTyrGlySerSerAr

gArgAlaProGlnThrGlyIleValAspGluCysCysPheArgSerCysAspLeuArgArgLeuGluMetTyrCysAlaProLeuLysProAlaLysSerAlaArgS

erValArgAlaGlnArgHisThrAspMetProLysThrGlnLysTyrGlnProProSerThrAsnLysAsnThrLysSerGlnArgArgLysGlySerThrPheGlu

GluHisLys

CDNA sequence of Rat MGF

Fig.6.

GGACCAGAGACCCTTTGCGGGGCTGAGCTGGACGCTCTTCAGTTCGTGTGGACCAAGGGGGCTTTTACTTCAACAAGCCCACAGTCTATGGCTCCAGCATTCG

GAGGCACCACAGACGGCATTGTGGATGAGTGTTGCTTCCGGAGCTGTGATCTGAGGAGGCTGGAGATGTACTGTGTCCGCTGCAAGCCTACAAAGTCAGCTCGTT

GAAGAACACAAGTAGAGGAAGTGCAGGAAACAAGACCTACAGAATGTAGGAGGCCTCCCGAGGAACAGAAAATGCCACGTCACGGAAGAATCCTTTGCTGCTTGA

GCAACCTGCAAAACATCGGAACACCTGCCAAATATCAATAATGAGTTCAATATCAÍTÍCAGAGATGGGCCATTTCCCTCAATGAAATACACAAGTAAACATTCCCGGA

ATTC

Protein sequence of Rat MGF

Exon 3 GlyProGluThrLeuCysGlyAlaGluLeuValAspAlaLeuGlnPheValCysGlyProArgGlyPheTyrPheAsnLysProThrValTyrGlySerSerIleAr

gArgAlaProGlnThrGlyIleValAspGluCysCysPheArgSerCysAspLeuArgArgLeuGluMetTyrCysValArgCysLysProThrLysSerAlaArgS

Exon 5 Exon 6 Exon 6 Exon 6

GluGluHisLys

CDNA sequence of Rabbit MGF

Fig.7.

Exon 3 GGACCGGAGACGCTCTGCGGTGGTGGATGCTCTTCAGTTCGTGTGGAGACAGGGGCTTTTATTTCAACAAGCCCACAGGATACGGCTCCAGCAGGAGGGCACC

Exon 5

acaccgacatgcccaagactcagaagtatcagcctccatctaccaacaagaaaatgaagtctcagaggagaaggaaaggaagtacatttgaagaacacaagtagagggagtgcagg

AAGTTTGATCACATTTCAAAGATGGCATTTCCCCCAATGAAATACACAAGTAAACATTC

Protein sequence of Rabbit MGF

Exon 3 GlyProGluThrLeuCysGlyAlaGluLeuValAspAlaLeuGlnPheValCysGlyAspArgGlyPheTyrPheAsnLysProThrGlyTyrGlySerSerArgArgAlaPr

oGlnThrGlyIleValAspGluCysCysPheArgSerCysAspLeuArgArgLeuGluMetTyrCysAlaProLeuLysProAlaLysAlaAlaArgSerValArgAlaGlnArgH

Exon 5 isThrAspMetProLysThrGlnLysTyrGlnProProSerThrAsnLysLysMetLysSerGlnArgArgArgLysGlySerThrPheGluGluHisLys

CDNA sequence of Human L. IGF-1

Fig.8.

Exon 3 GGACCGGAGACGCTCTGCGGGGCTGGTGGTTCTTCAGTTCGTGTGTGGACAGGGGCTTTTATTTCAACAAGCCCACAGGGTATGGCTCCAGCAGTCGGAGGGCGCC

Protein sequence of Human L.IGF-1

Exon 3 GlyProGluThrLeuCysGlyAlaGluLeuValAspAlaLeuGlnPheValCysGlyAspArgGlyPheTyrPheAsnLysProThrGlyTyrGlySerSerArgArgAlaPr

oGlnTheGlyIleValAspGluCysCysPheArgSerCysAspLeuArgArgLeuGluMetTyrCysAlaProLeuLysProAlaLysSerAlaArgSerValArgAlaGlnArgH

. isThrAspMetProLysThrGlnLysGluValHisLeuLysAsnAlaSerArgGlySerAlaGlyAsnLysAsnTyrArgMet

CDNA sequence of Rat L.IGF-1

Fig.9.

MADEN

acagacgggcattgtggatgaggttgcttccggagctgtgatctgaggaggctggagatgtactgtgccgctgcaagcctacaagtcagctcgttccatccgggcccagg

acactgacatgcccaagactcagaagtacacttgaagaacacaagtagaggaagtgcaggaaacaagacctacagaatgtaggaggaggctcccgaggaacagaaatgcca

CGTCACCGCAAGATCCTTGGCTGCTGCAACCTGCAAACATCGGAACACCTGCCAAATÀTCAATAATGAGTTCAATATCATTTCAGAGATGGGCATTTCCCTCAATGAAATAC

ACAAGTAAACATTCCCGGAATTC

Protein sequence of Rat L.IGF-1

Exon 3 GlyiroGluThrLeuCysGlyAlaGluLeuValAspAlaLeuGlnPheValCysGlyProArgGlyPheTyrPheAsnLysProThrValTyrGlySerSerIleArgArgAlaPr

oGlnThrGlyIleValAspGluCysCysPheArgSerCysAspLeuArgArgLeuGluMetTyrCysValArgCysLysProThrLysSerAlaArgSerIleArgAlaGlnArgH

isThrAspMetProLysThrGlnLysGluValHisLeuLysAsnThrSerArgGlySerAlaGlyAsnLysThrTyrArgMet

CDNA sequence of Rabbit L. IGF-1

Fig. 10.

Exon 3 GGACCGGAGACGCTCTGCGGTGGTGGTGCTCTTCAGTTCGTGTGGAGACAGGGGCTTTTTATTTCAACAAGCCCACAGGATACGGCTCCAGCAGTCGGAGGGCACC

acaccgacatgcccaagactcagaagtacatttgaagaacacaagtagagggagtgcaggaaacaagaactacaggatgtaggaagacccttctgaggagtgaagaagac Exon 6

GG(]ACCGCAGGACCCTTTGCTCTGCACAGTTACCTGTAACATTGGAATACCGGCCAAAAATAAGTTTGATCACATTTCAAAGATGGCATTTCCCCCCAATGAAATACACAAGTA

AACATTC

Protein sequence of Rabbit L. IGF-1

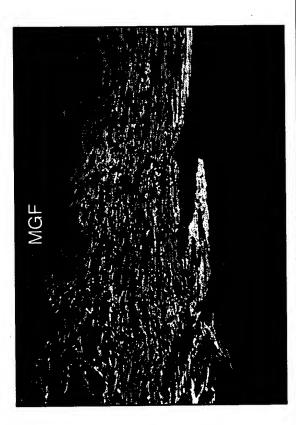
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pGlnThrGlyIleValAspGluCysCysPheArgSerCysAspLeuArgArgLeuGluMetTyrCysAlaProLeuLysProAlaLysAlaAlaArgSerValArgAlaGlnArgH

Exon 6 isThrAspMetProLysThrGlnLysGluValHisLeuLysAsnThrSerArgGlySerAlaGlyAsnLysAsnTyrArgMet

			Met Met Met
Exon 4 A sn Lys Pro Thr Gly Tyr Gly Ser Ser Ser Arg Arg Ala Pro Gln Thr Gly Ile Val Asp Glu Cys Cys A sn Lys Pro Thr Gly Tyr Gly Ser Ser Ile Arg Arg Ala Pro Gln Thr Gly Ile Val Asp Glu Cys Cys A sn Lys Pro Thr Gly Tyr Gly Ser Ser Ser Arg Arg Ala Pro Gln Thr Gly Ile Val Asp Glu Cys Cys A sn Lys Pro Thr Gly Tyr Gly Ser Ser Arg Arg Ala Pro Gln Thr Gly Ile Val Asp Glu Cys Cys A sn Lys Pro Thr Val Tyr Gly Ser Ser Ile Arg Arg Ala Pro Gln Thr Gly Ile Val Asp Glu Cys Cys A sn Lys Pro Thr Gly Tyr Gly Ser Ser Ser Arg Arg Ala Pro Gln Thr Gly Ile Val Asp Glu Cys Cys	Arg Ser Cys Asp Leu Arg Arg Leu Glu Met Tyr Cys Ala Pro Leu Lys Pro Ala Lys Ser Ala Arg Ser Arg Ser Cys Asp Leu Arg Arg Leu Glu Met Tyr Cys Ala Pro Leu Lys Pro Thr Lys Ser Ala Arg Ser Arg Ser Cys Asp Leu Arg Arg Leu Glu Met Tyr Cys Ala Pro Leu Lys Pro Ala Lys Ala Ala Arg Ser Arg Ser Cys Asp Leu Arg Arg Leu Glu Met Tyr Cys Ala Pro Leu Lys Pro Ala Lys Ser Ala Arg Ser Arg Ser Cys Asp Leu Arg Arg Leu Glu Met Tyr Cys Ala Pro Leu Lys Pro Thr Lys Ser Ala Arg Ser Arg Arg Ser Arg Arg Ser Arg Ser Arg Ser Arg Arg Ser Arg Ser Arg Arg Ser Arg Arg Ser Arg Arg Arg Ser Arg Arg Arg Ser Arg Arg Arg Ser Arg Arg Arg Arg Ser Arg Arg Arg Arg Arg Arg Arg Arg Arg Ar	Arg Ala Gln Arg His Thr Asp Met Pro Lys Thr Gln Lys Tyr Gln Pro Pro Ser Thr Asn Lys Asr Arg Ala Gln Arg His Thr Asp Met Pro Lys Thr Gln Lys Ser Gln Pro Leu Ser Thr His Lys Lys Arg Ala Gln Arg His Thr Asp Met Pro Lys Thr Gln Lys Tyr Gln Pro Pro Ser Thr Asn Lys Lys Arg Ala Gln Arg His Thr Asp Met Pro Lys Thr Gln Lys	Ser Gln Arg Arg Lys G 1y Ser Thr Phe Glu Glu His Lys Ser Gln Arg Arg Lys G 1y Ser Thr Leu Glu Glu His Lys Ser Gln Arg Arg Lys G 1y Ser Thr Phe Glu Glu His Lys
Hu MGF Rat MGF Rab MGF Hu IGF Rat IGF Rab IGF	Hu MGF Rat MGF Hu IGF Rat IGF Rab IGF	Hu MGF - Rat MGF - Rab MGF - Hu IGF - Rat IGF - Rab IGF -	Hu MGF - Rat MGF - Rab MGF - Hu IGF - Rat IGF - Rab IGF -





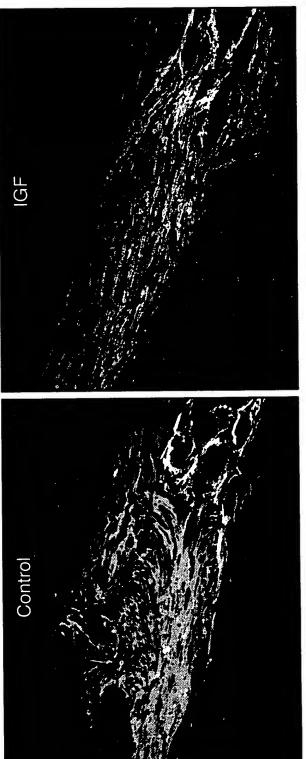


Fig.12.